ENVIRONMENTAL CHEMISTS

Date of Report: 11/12/04 Date Received: 11/04/04

Project: Metro Self Monitor, PO# M105225, F&BI 411052

Date Extracted: 11/09/04 Date Analyzed: 11/09/04

RESULTS FROM THE ANALYSIS OF THE WATER SAMPLE FOR TOTAL METALS BY INDUCTIVELY COUPLED PLASMA (ICP) (METHOD 6010)

Results Reported as mg/L (ppm)

Sample ID	<u>Chromium</u>	Copper	<u>Nickel</u>	<u>Zinc</u>
Laboratory ID				
M105225 411052-01	0.49	0.47	0.36	0.05
Method Blank	< 0.05	< 0.05	< 0.10	< 0.05

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QUALITY ASSURANCE RESULTS FOR TOTAL METALS BY INDUCTIVELY COUPLED PLASMA (ICP) (METHOD 6010)

Laboratory Code: 411052-01 (Duplicate)

Material Residence		사는 문항을 되고 하는데 사실하는		Relative	
	Reporting	Sample	Duplicate	Percent	Acceptance
Analyte	Units	Result	Result	Difference	Criteria
Chromium	mg/L (ppm)	0.49	0.51	4	0-20
Copper	mg/L (ppm)	0.47	0.48	2	0-20
Nickel	mg/L (ppm)	0.36	0.36	0	0-20
Zinc	mg/L (ppm)	0.05	< 0.05	nm	0-20
	Chromium Copper Nickel	Analyte Units Chromium mg/L (ppm) Copper mg/L (ppm) Nickel mg/L (ppm)	Analyte Units Result Chromium mg/L (ppm) 0.49 Copper mg/L (ppm) 0.47 Nickel mg/L (ppm) 0.36	Analyte Units Result Result Chromium mg/L (ppm) 0.49 0.51 Copper mg/L (ppm) 0.47 0.48 Nickel mg/L (ppm) 0.36 0.36	Analyte Reporting Units Sample Result Duplicate Result Percent Difference Chromium mg/L (ppm) 0.49 0.51 4 Copper mg/L (ppm) 0.47 0.48 2 Nickel mg/L (ppm) 0.36 0.36 0

Laboratory Code: 411052-01 (Matrix Spike)

				Percent	
	Reporting	Spike	Sample	Recover	y Acceptance
Analyte	Units	Level	Result	MS	Criteria
Chromium	mg/L (ppm)	5	0.49	93	50-150
Copper	mg/L (ppm)	5	0.47	95	50-150
Nickel	mg/L (ppm)	10	0.36	91	50-150
Zinc	mg/L (ppm)	5	0.05	91	50-150

Laboratory Code: Laboratory Control Sample

				P	ercent		Perce	nt				
		Reporting	Spike	R_0	ecover	y l	Recove	ery	Acceptance	e	RPI)
Analyte	*** * 1.4	Units	Level	I II. Pridas i	LCS	TOP TO Read and	LCSI)	Criteria		(Limit	20)
Chromium	T.J.	mg/L (ppm)	5		95	1.14	93	4.47.77	70-130		2	
Copper		mg/L (ppm)	5		97	SULLAN	95		70-130		2	
Nickel		mg/L (ppm)	10		95		92		70-130		3	
Zinc		mg/L (ppm)	5		92	i, eŭe	90		70-130	u Por	2	

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

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4	11052	SAM	MPLE CHAIN OF CUSTODY CM 11-04-04											AI/						
	Send Report To	Thon	لنعم	[SAMPLIERS (S	ignature)				•				Page # of TURNAROUND TIME						
Company Alaskar Copper Work					PROJECT NAME/NO. PO#									☐ Standard (2 Weeks) ☐ RUSH						
	Address 628 S. A	torsond	80		mesno s	iels me	. کرسد	lo c		n	- [K	SZZ	2	Ru	ısh ch	arges	s authorized by:			
	City, State, ZIP Segar	e CUA	2817		REMARKS	N 100 1 100								0	-		LE DISPOSAL ter 30 days			
	Phone # <u>26-781-87</u> H	_Fax #_20	6-382-4	705	☐ Return samples ☐ Will call with instructions															
Γ						ANALYSES RE								UESTED						
	Sample ID	Lab ID	Date	Time	Sample Type	# of containers	TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by 8260	SVOCS BY 62.10 HFS	Charge 200					Notes			
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	Friedman & Bruya, Inc.	SIGNATURE				PRINT NAME							COMPANY						DATE	TI	ME
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	Seattle, WA 98119-2029	Beceived by: My law					Khan Phan						I/BI						1/4/04	1	
	Ph. (206) 285-8282	Relinquished by:																			
•	Fax (206) 283-5044	Received by:								8			****								
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ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Charlene Morrow, M.S. Yelena Aravkina, M.S. Bradley T. Benson, B.S. Kurt Johnson, B.S. 3012 16th Avenue West Seattle, WA 98119-2029 TEL: (206) 285-8282 FAX: (206) 283-5044 e-mail: fbi@isomedia.com

November 12, 2004

DUPLICATE COPY

INVOICE # 04ACU1112-1

Accounts Payable Alaskan Copper Works 628 South Hanford Seattle, WA 98134

RE: Project Metro Self Monitor, PO# M105225, F&BI 411052 - Results of testing requested by Gerry Thompson for material submitted on November 4, 2004.

FEDERAL TAX ID #(b) (6)

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Charlene Morrow, M.S. Yelena Aravkina, M.S. Bradley T. Benson, B.S. Kurt Johnson, B.S. 3012 16th Avenue West Seattle, WA 98119-2029 TEL: (206) 285-8282 FAX: (206) 283-5044 e-mail: fbi@isomedia.com

November 12, 2004

Gerry Thompson, Project Manager Alaskan Copper Works 628 South Hanford Seattle, WA 98134

Dear Mr. Thompson:

Included are the results from the testing of material submitted on November 4, 2004 from the Metro Self Monitor, PO# M105225, F&BI 411052 project. There are 2 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

harlene Morrion

Charlene Morrow

Chemist

Enclosures ACU1112R.DOC